U.S. Pat. Appln. No.: 10/062,257

Filed: February 1, 2002

Entitled: TUMOR ANTIGEN

Papers filed herewith on: June 10, 2002 Supplemental Information Disclosure Statement

document.

Docket No. 3190-014

Applicant: Kyogo ITOH

PTO Form 1449, and 1

JUN 1 4 2002

COMMISSIONER OF PATENTS

Receipt is hereby acknowledged of the papers filed as indicated in connection with the above-identified case

LAK/ajs

PCT/JP00/05220

# PATENT COOPERATION TREATY

#### PCT

# NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

### From the INTERNATIONAL BUREAU

To:

SHOJI, Takashi SN Iwamotocho Building 6th Floor 2-10, Iwamotocho 3-chome Chiyoda-ku Tokyo 101-0032

Date of mailing (day/month/year) 10 May 2002 (10.05.02)	JAPON	
Applicant's or agent's file reference GP00-1017	IMPORTANT NOTIFICATION	
International application No. PCT/JP00/05220	International filing date (day/month/year) 03 August 2000 (03.08.00)	
Applicant ITOH, Kyogo		

## 1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

# 2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,CA,CN,KP,RO,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the international Bureau only upon their request:

AP,EA,AE,AG,AL,AM,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CH,CR,CU,CZ,DE,DK,DM,DZ,EE,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU;LV,MA,MD,MG,MK,MN,MW,MX,MZ,NO,NZ,PL,PT,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW,OA

# 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzenand Authorized officer

**Eliott PERETTI** 

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Form PCT/IB/338 (July 1996)

# Translation

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  GP00-1017	FOR FURTHER ACTION		ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)
International application No. PCT/JP00/05220	International filing date (day/n 03 August 2000 (03.	- '	Priority date (day/month/year) 05 August 1999 (05.08.99)
International Patent Classification (IPC) or no C12N 15/12, C07K 14/82, 7/00, 33/15		45/00, A61P	35/00, A61K 38/10, G01N 33/50,
Applicant	ITOH, Kyogo		
This international preliminary examinant and is transmitted to the applicant account and the applicant account accounts.	nation report has been prepared cording to Article 36.	by this Interna	ational Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets, includin	g this cover sh	neet.
been amended and are the basi	ied by ANNEXES, i.e., sheets is for this report and/or sheets of the Administrative Instructions	ontaining rect	otion, claims and/or drawings which have ifications made before this Authority (see T).
These annexes consist of a total	al of l sheets.		
3. This report contains indications relati	ing to the following items:		
Basis of the report			•
II Priority			
III Non-establishment of	f opinion with regard to novelty.	inventive step	and industrial applicability
IV Lack of unity of inver	ntion		
V Reasoned statement u citations and explanat	inder Article 35(2) with regard to tions supporting such statement	o novelty, inv	entive step or industrial applicability;
VI Certain documents cit	ted		
VII Certain defects in the	international application		
VIII Certain observations	on the international application		
	•		
Date of submission of the demand	Date of	omnistian of	
02 March 2001 (02.03.0		completion of 29 Oc.	tober 2001 (29.10.2001)
		<u>-</u>	
Name and mailing address of the IPEA/JP	Authoriz	ed officer	
Facsimile No.	Telephor	ne No.	

		International application No.				
I	ITERNATIONAL PRELIMINARY EXAMINATION REPORT	PCT/JP00/05220				
I. Basis	of the report					
1. With	regard to the elements of the international application:*	•				
	the international application as originally filed					
	the description:					
	pages 1-45	, as originally filed				
	pages	. filed with the demand				
	pages , filed with t	ne letter of				
$\boxtimes$	the claims:					
	pages 1-15	, as originally filed				
		ided (together with any statement under Article 19				
	pages 18-20	, filed with the demand				
	pages, filed with t	ne letter of				
$\boxtimes$	the drawings:					
	pages I-15	, as originally filed				
	pages	, filed with the demand				
	pages, filed with the	ne letter of				
$\boxtimes$	he sequence listing part of the description:	•				
	pages 1-5	, as originally filed				
	pages	, filed with the demand				
	pages, filed with the	ne letter of				
Thes	the language of a translation of the international application (under Rule 48 the language of the translation furnished for the purposes of international set the language of publication of the international application (under Rule 48 the language of the translation furnished for the purposes of international or 55.3).	which is: which is: arch (under Rule 23.1(b)).				
	regard to any nucleotide and/or amino acid sequence disclosed in minary examination was carried out on the basis of the sequence listing:	the international application, the international				
	contained in the international application in written form.					
Ц	filed together with the international application in computer readable form					
	furnished subsequently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.	•				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
L	The statement that the information recorded in computer readable form been furnished.	is identical to the written sequence listing has				
4. 🛛	The amendments have resulted in the cancellation of:					
	the description, pages					
	the claims, Nos. 16.17					
	the drawings, sheets/fig					
5.	This report has been established as if (some of) the amendments had not beyond the disclosure as filed, as indicated in the Supplemental Box (Rule					
in th	cement sheets which have been furnished to the receiving Office in respons is report as "originally filed" and are not annexed to this report since 0.17).					
	eplacement sheet containing such amendments must be referred to under ite	m I and annexed to this report.				

International application No.

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/05220

III. Non-establishment of opinion with regard to novelty, inventive step and industrial	applicability
1. The questions whether the claimed invention appears to be novel, to involve an invindustrially applicable have not been examined in respect of:	ventive step (to be non obvious), or to be
the entire international application.	
Claims Nos	
because:	
the said international application, or the said claims Nos	15 liminary examination (specify):
See supplemental sheet for continuation of Box III. 1.	
•	•
•	
·	
·	•
	•
the description, claims or drawings (indicate particular elements below) or said of	laims Nos13,14
are so unclear that no meaningful opinion could be formed (specify):  See supplemental sheet for continuation of Box III. 1.	
	·
	•
the claims, or said claims Nos	are so inadequately supported
no international search report has been established for said claims Nos.	. 15
	•
2. A meaningful international preliminary examination cannot be carried out due to the fa sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out due to the factorial sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out due to the factorial sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out due to the factorial sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out due to the factorial sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out due to the factorial sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out due to the factorial sequence listing to comply with the standard provided for in Annex C of the Administration cannot be carried out of the Administration canno	vilure of the nucleotide and/or amino acid ive Instructions:
the written form has not been furnished or does not comply with the standard.	
the computer readable form has not been furnished or does not comply with the st	tandard.
F DCT/IDF A (400 (D MIX (1.1. 1000)	

Form PCT/IPEA/409 (Box III) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

international application No. PCT/JP 00/05220

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III. 1

Claim 15 pertains to methods for treatment of the human body by therapy and to diagnostic methods applied to the human body, and thus relates to subject matter which does not require international preliminary examination by this International Preliminary Examining Authority.

The statements "compounds obtained by the screening method" in Claim 13 and the "pharmaceutical compositions ... containing a compound obtained by screening" in Claim 14 are very unclear, since the nature of the specific compounds included among and not included among the compounds in these claims is completely unclear.

Therefore, it is impossible to express an opinion as to the novelty, inventive step or industrial applicability of the inventions set forth in the aforementioned claims.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

nternational application No.

PCT/JP 00/05220

Statement			
Novelty (N)	Claims	1-12, 18-20	YES
•	Claims		- NO
Inventive step (IS)	Claims	1-12, 18-20	YES
	Claims .		NO
Industrial applicability (IA)	Claims	1-12, 18-20	YES
•	Claims		NO

- Document 1: M. Kikuchi et al., "Identification of a SART1-derived peptide capable of inducing HLA-AA24-restricted and tumor-specific cytotoxic
  T lymphocytes", Int. J. Cancer (May 1999),
  Vol. 81, No.3, pp. 459-466
- Document 2: Y. Koga et al., "A human T cell-specific cDNA clone (YT16) encodes a protein with extensive homology to a family of protein-tyrosine kinases", Eur. J. Immunol. (1986), Vol. 16, No. 12, pp. 1643-1646
- Document 3: A. Tanaka et al., "DNA sequence encoding the amino acid terminal region of the human c-src protein: implications of sequence divergence among src-type kinase oncogenes", Mol. Cell Biol. (1987), Vol. 7, No. 5, pp. 1978-1983

The inventions disclosed in Documents 1-12 and 18-20 involve an inventive step relative to Documents 1 to 3 cited in the international search report. None of Documents 1 to 3 discloses "a peptide recognized by tumor-specific cytotoxic T cells", and such a peptide could not be deduced easily by a person skilled in the art from Documents 1 to 3.